

RESEARCH WORK IMPROVING EVERY DAY THINGS. that people need



Spraying a Soil with Anti-Mildew Solution



Mr Howard has developed an Anti-Moth Solution



Stitching Room in a big New England Shoe Factory. Scientist Howard has relieved many a shoe manufacturer of his troubles

Mr Howard studying the effect of chemicals on leather under the microscope



Reducing Cost of Leathers and Textiles by Increasing Their Wearing Qualities.

WHILE marvels have been produced in mechanical appliances, in craft for the conquest of the air, or of the depths of the sea, and while methods of electrical communication have made it possible to talk half around the world, yet comparatively little change has been recorded by scientists in improving the commonplace every day things that people wear.

Yet there is every reason to believe that a vast field of usefulness is open to chemists, physicists, and scientists generally who will devote their lives to seeking means whereby the wearing qualities of textiles from which garments are made, leather from which shoes and gloves are made, and other articles of every day use are bettered. The scientific study of these, simple things may seem an humble occupation as compared with the work of the inventor who perfects accessories of warfare, or of the scientist who develops some widely heralded elixir from monkeys to make old people young, but which less than one in a million has used. Yet the sum total of benefit to be derived by humanity through this less spectacular work is incalculable. The experts who seek to cut down living costs by increasing the

wearing qualities of things in every day use, are working on lines to help everybody's pocket book. What can be done by the scientist to improve leathers and textiles is indicated by the work of Fred A. Howard, a notable chemist and scientist of South Easton, Mass. Mr. Howard has devoted more than thirty-five years of his busy life to develop chemical formulas for manufacturers of leather belting, shoes and gloves. By many he is known as the "trouble man" of the shoe industry. He has won a reputation as a good man for manufacturers to consult with when they have refractory or unsatisfactory leathers to deal with. An idea of Mr. Howard's achievements as a leather chemist may be had from the remarks of a belt manufacturer who observed that the changes in leather belts wrought by Mr. Howard's processes would be worth half a billion dollars a year in wear to the shoe



Mr Howard has originated a wonderful new Strawberry as his side-line (ACTUAL SIZE)



A Solution to keep the flies off of horses and to improve their coats

use in the manufacture of shoes.

But Howard has not only accomplished marvels in the treatment of leather. His work with textiles points the way for wonderful developments in that line. He has made discoveries of great value to the public health, and has, as a pastime, made an excursion into plant breeding with astonishing results.

Mr. Howard's first leather problem, tackled many years ago, was centered on the improvement of hemlock sole leather.

ber of formulae for rectifying and improving leathers tanned by various processes.

Among them is a compound to be used by manufacturers of patent leather shoes. The compound is put on before the shoes are made. The leather, it is said, will never crack or break. He has also developed formulae for making brittle, harsh, dry, and imperfectly tanned glove leather flexible and workable. Refractory leather treated by him fifteen years ago is as flexible as the day it was processed. He has made it permanently waterproof and doubled its wearing qualities.

Perhaps most wonderful of Mr. Howard's inventions is korite, a useful chemical agent which he has perfected after forty years in tireless research work. This chemical is said to permanently affect the fibers of the leather, rendering it wonderfully flexible, and by tests increasing its durability under friction tests over 100%. It renders the leather impervious to water, although admitting air.

Many of Mr. Howard's discoveries have originated in a desire to be helpful to others. Mr. Howard developed a solution that makes garments absolutely moth proof. The chemical has no odor, does not affect the wearing qualities or color of the material and it cannot be washed out.

Another of Mr. Howard's inventions is a fireproofing solution for working clothes. The chemist has brought the solution up to the point where the ignition of the cloth is prevented. A test lasting over a period of more than one year proves that it does not rot. He has originated a unique chemical solution to be sprayed on fine horses and highly bred cattle for the purpose of keeping flies and other insects from the animal.

Mr. Howard has produced a strawberry plant growing from 12 to 15 inches high and yielding the strawberries on high stems. It is said that he knows more about it than any other man in the world. He would disclaim that statement. But to him a piece of leather is the most wonderful bit of weaving in the universe, and when he finds that its fibers have been macerated or gummed together by the crystals of tannin, or have been rather imperfectly tanned or damaged, he feels an injury has been done to one of nature's most precious products.

Health is Happiness

Auto Intoxication
Auto intoxication is caused by the absorption of poisonous substances produced in the gastro-intestinal tract. Its symptoms are: Headache, vertigo, lassitude, sometimes insomnia and fever.

Eating while the food in the stomach is not yet quite digested often causes auto intoxication. In case of a disease of long standing a physician ought to be consulted. In minor cases, though, the following rather novel treatment will be found very effective: One yeast cake three times a day an hour before meals. Not more than three meals. Drink a glass of warm water one-half hour before breakfast every morning.

Avoid rich food, pastries, fried dishes, sweets, stimulants, coffee, tea in excess. Eat plenty of spinach, carrots and other well-cooked vegetables, lettuce, not too much meat (roasted). Avoid eggs, milk and cheese.

Improving the Hair
It is a proven fact the electrical treatment by means of "High Frequency" (Violet Rays) has revolutionized the treatment of dandruff, falling hair, premature grayness, etc.

Disregarding definite disease of the scalp or hair, the common reason for all hair troubles is undoubtedly that the hair follicles are not getting either (1) the proper quality of nourishment, or (2) the proper quantity. In other words, the patient's blood is anemic or a proper supply of blood is not reaching the roots of the hair.

The former condition, poorness of blood, must, of course, be treated by appropriate tonics, and, of course, such conditions as dyspepsia, etc., must be attended to. It is as regards the second condition that the introduction of high frequency treatment has effected such marked results and is entirely superseding the old method of scalp massage plus local hair tonics. By massage the scalp was loosened, thus permitting a larger flow of blood to the hair follicles and hence a better supply of nourishment, but the great drawback often was that although the circulation was improved the hair itself was bruised or broken, and thus little improvement resulted. Scalp massage properly performed (i. e., where the tips of the fingers loosened the scalp alone and did not rub the hair) is indeed excellent, but with high frequency improvement is effected in a very much shorter space of time.

STATE CHAMBER OFFERS AID TO PUBLIC SCHOOLS

INDIANAPOLIS, Ind., Oct. 13.—The Indiana State Chamber of Commerce has offered every possible assistance in the educational campaign to be conducted in Indiana during the week of Nov. 7-16. In a state-wide effort to raise the standard of public schools in our state, The State Chamber, through its manager, B. R. Inman, is compiling a list of speakers for the campaign and will be able to offer to local committees the services of a large number of leading business and professional men of the state. It is the plan to put on a program for school betterment in every school house in Indiana. The county superintendent in each county and the superintendent of schools in the county seat are members of a county committee. This campaign will not be for the purpose of raising salaries, but will be for the purpose of getting better schools for boys and girls in all communities, cities, towns and the country.

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